

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1527169

Luminaire Tested: 24CGTX-90HE-F125-L850

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527169
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2507-496-1)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CGTX-90HE-F125-L850
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

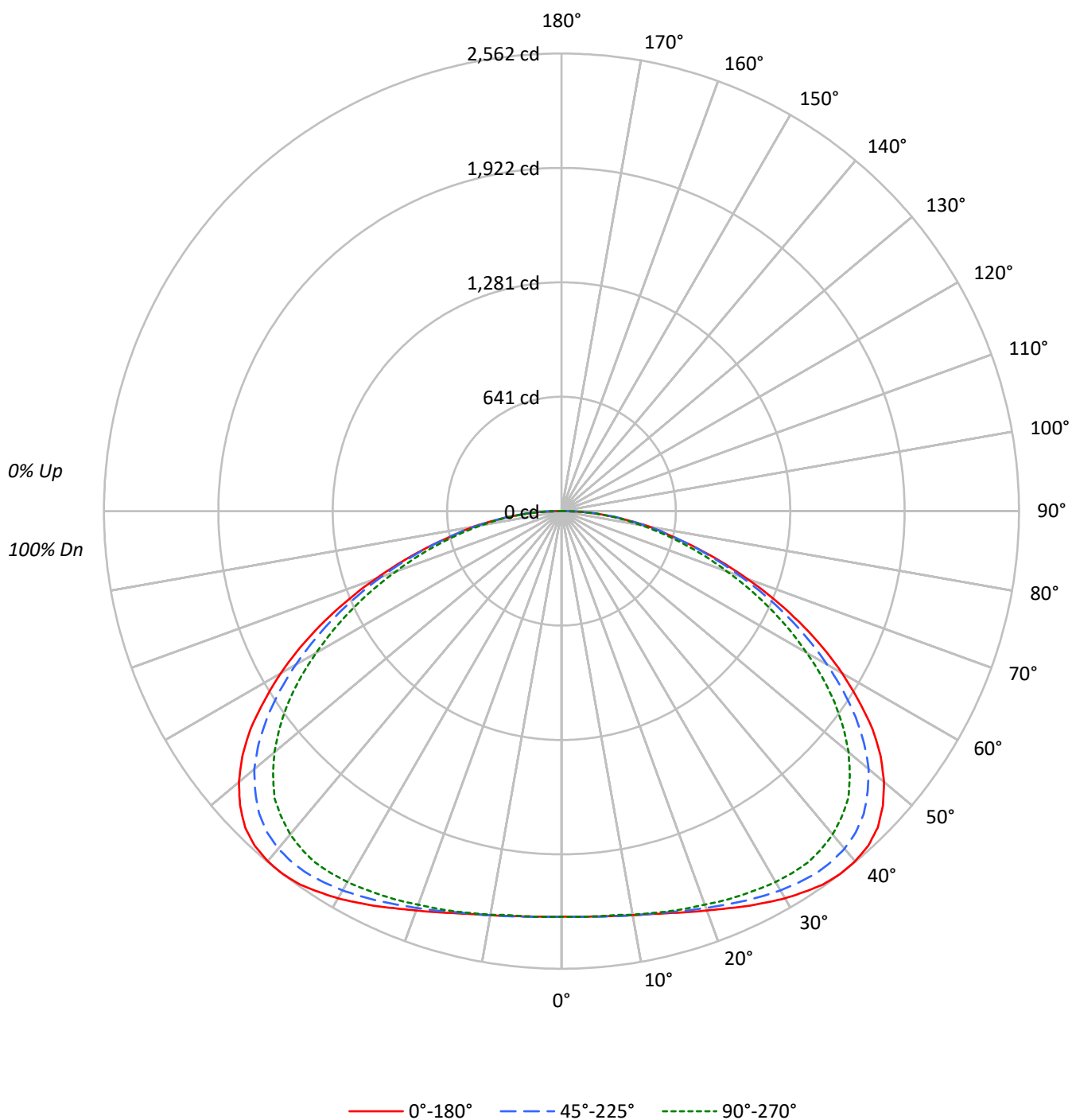
Lumens per Lamp: N/A
Luminaire Lumens: 9601.0 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.3
Input Voltage (V):
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor:
Total Harmonic Distortion (THDi):
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	108	102	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82			
2	97	88	81	74	94	86	79	74	83	77	72	79	74	70	76	72	69	66			
3	88	76	68	61	85	75	67	60	72	65	59	69	63	58	66	61	57	54			
4	80	67	57	50	77	66	57	50	63	55	49	61	54	48	58	53	48	45			
5	73	59	50	43	71	58	49	42	56	48	42	54	47	41	52	46	41	39			
6	67	53	43	36	65	52	43	36	50	42	36	48	41	36	47	40	35	33			
7	62	47	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	29			
8	57	43	34	28	56	42	34	28	41	33	28	40	33	27	38	32	27	25			
9	53	39	31	25	52	39	30	25	37	30	25	36	29	24	35	29	24	22			
10	50	36	28	22	48	35	27	22	34	27	22	33	27	22	33	26	22	20			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3055	3055	3055
5°	3076	3078	3076
10°	3139	3139	3134
15°	3244	3237	3230
20°	3407	3385	3356
25°	3624	3577	3525
30°	3889	3808	3725
35°	4191	4070	3947
40°	4494	4332	4150
45°	4766	4556	4323
50°	4935	4700	4392
55°	4988	4717	4379
60°	4884	4623	4267
65°	4675	4451	4099
70°	4354	4209	3880
75°	3986	3960	3673
80°	3866	3788	3515
85°	3592	3748	3515

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 4988 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.0	2.3
10°-20°	660.5	6.9
20°-30°	1115.5	11.6
30°-40°	1551.8	16.2
40°-50°	1836.9	19.1
50°-60°	1782.2	18.6
60°-70°	1373.1	14.3
70°-80°	801.2	8.3
80°-90°	261.9	2.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1994.0	20.8
0°-40°	3545.8	36.9
0°-60°	7164.9	74.6
0°-90°	9601.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9601.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2270	2270	2270	2270	2270	
5°	2277	2279	2279	2279	2277	218
15°	2329	2329	2324	2319	2319	663
25°	2441	2431	2409	2384	2374	1131
35°	2552	2530	2478	2426	2403	1598
45°	2505	2471	2394	2312	2272	1923
55°	2126	2090	2011	1917	1867	1888
65°	1468	1452	1398	1326	1288	1450
75°	767	785	762	727	707	821
85°	233	244	243	238	228	260
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2270.4	2270.4	2270.4	2270.4	2270.4
2.5°	2272.1	2273.8	2273.8	2273.8	2273.8
5°	2277.1	2278.8	2278.8	2278.8	2277.1
7.5°	2285.5	2285.5	2287.2	2285.5	2280.5
10°	2297.2	2297.2	2297.2	2295.5	2293.9
12.5°	2310.6	2312.3	2308.9	2307.2	2305.6
15°	2329.0	2329.0	2324.0	2319.0	2319.0
17.5°	2354.1	2350.8	2344.1	2335.7	2332.4
20°	2379.2	2375.9	2364.2	2350.8	2344.1
22.5°	2407.7	2401.0	2385.9	2367.5	2360.8
25°	2441.2	2431.1	2409.4	2384.3	2374.2
27.5°	2471.3	2457.9	2431.1	2402.7	2385.9
30°	2503.1	2486.4	2451.2	2414.4	2397.7
32.5°	2528.3	2511.5	2466.3	2424.4	2402.7
35°	2551.7	2529.9	2478.0	2426.1	2402.7
37.5°	2561.7	2538.3	2478.0	2417.8	2387.6
40°	2558.4	2533.3	2466.3	2397.7	2362.5
42.5°	2541.7	2511.5	2439.5	2362.5	2322.3
45°	2504.8	2471.3	2394.3	2312.3	2272.1
47.5°	2441.2	2407.7	2325.7	2238.6	2190.0
50°	2357.5	2322.3	2245.3	2148.2	2098.0
52.5°	2252.0	2216.8	2136.5	2037.7	1989.1
55°	2126.4	2089.6	2010.9	1917.1	1866.9
57.5°	1972.4	1945.6	1868.6	1779.8	1731.3
60°	1815.0	1788.2	1717.9	1634.2	1585.6
62.5°	1645.9	1624.1	1560.5	1481.8	1439.9
65°	1468.4	1451.7	1398.1	1326.1	1287.6
67.5°	1287.6	1280.9	1232.3	1170.4	1136.9
70°	1106.7	1110.1	1069.9	1014.7	986.2
72.5°	930.9	942.7	910.8	865.6	845.5
75°	766.8	785.3	761.8	726.7	706.6
77.5°	614.5	639.6	619.5	592.7	576.0
80°	499.0	497.3	488.9	468.8	453.7
82.5°	358.3	365.0	360.0	348.3	339.9
85°	232.7	244.5	242.8	237.8	227.7
87.5°	115.5	128.9	130.6	127.3	122.2
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room Dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	18.3	20.0	18.6	20.3	20.6	17.6	19.3	18.0	19.7	20.0
	3H	20.1	21.7	20.5	22.0	22.4	19.4	21.0	19.8	21.3	21.7
	4H	20.8	22.2	21.2	22.6	23.0	20.1	21.6	20.5	21.9	22.3
	6H	21.3	22.7	21.7	23.0	23.4	20.6	22.0	21.0	22.4	22.8
	8H	21.5	22.8	21.9	23.2	23.6	20.8	22.2	21.3	22.6	23.0
	12H	21.6	22.9	22.1	23.3	23.7	21.0	22.3	21.4	22.7	23.1
4H	2H	18.9	20.4	19.3	20.7	21.1	18.3	19.8	18.7	20.2	20.6
	3H	20.9	22.2	21.3	22.6	23.0	20.3	21.6	20.8	22.0	22.4
	4H	21.7	22.9	22.2	23.3	23.7	21.2	22.3	21.6	22.7	23.2
	6H	22.4	23.4	22.9	23.9	24.3	21.9	22.9	22.3	23.3	23.7
	8H	22.7	23.6	23.1	24.0	24.5	22.1	23.1	22.6	23.5	24.0
	12H	22.9	23.7	23.3	24.2	24.7	22.3	23.2	22.8	23.7	24.1
8H	4H	22.1	23.0	22.5	23.4	23.9	21.6	22.5	22.0	22.9	23.4
	6H	22.9	23.7	23.4	24.1	24.6	22.4	23.2	22.9	23.7	24.1
	8H	23.2	23.9	23.7	24.4	24.9	22.7	23.4	23.2	24.0	24.4
	12H	23.5	24.1	24.0	24.6	25.2	23.1	23.7	23.6	24.2	24.7
12H	4H	22.1	22.9	22.6	23.4	23.9	21.6	22.5	22.1	22.9	23.4
	6H	23.0	23.7	23.5	24.1	24.7	22.5	23.2	23.0	23.7	24.2
	8H	23.4	24.0	23.9	24.5	25.0	22.9	23.5	23.4	24.0	24.6













(END OF REPORT)